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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/803,696

03/17/2004

Min-Ho Kim

9898-315

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20575 7590 06/21/2007
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EXAMINER

NATNAEL, PAULOS M

ART UNIT	PAPER NUMBER
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2622

MAIL DATE	DELIVERY MODE
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06/21/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/803,696

Applicant(s)

KIM, MIN-HO

Examiner

Paulos M. Natnael

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 April 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 2-4, 8, 9, 11-15 and 17-21 is/are allowed.
- 6) ☒ Claim(s) 1, 5-7, 10, 16 and 22 is/are rejected.
- 7) ☒ Claim(s) 23 and 24 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 22 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 22, the claimed "extracting" analog television signals lacks antecedent basis.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims **1,6,10, 16** are rejected under 35 U.S.C. 102(b) as being anticipated by Park et al. U.S. Pat. No. 5,592,235.

Considering claims **1, 6,10**, Park et al. (hereinafter, "Park") discloses a terrestrial/cable broadcasting signal receiver for HDTV. A ground/cable broadcasting receiver for an HDTV for receiving both ground and cable channel broadcastings of an HDTV is disclosed including: switching means for selecting ground broadcasting or

Art Unit: 2622

cable broadcasting; a TCM decoder for symbol-detecting and error-correcting a baseband signal of the ground broadcasting for HDTV; discriminating means for symbol-detecting a baseband signal of the HDTV cable broadcasting; and a multiplexer for selecting and outputting one of the signals output from the TCM decoder and the discriminating means according to the switching means so that ground broadcasting receiver and cable broadcasting receiver are coupled to form a single receiver. (See, Abstract) As illustrated on Figure 1, the system of Park comprises a tuner **51**, an IF filter sync detector **53** (corresponding to the claimed sync signal detector), NTSC rejection filter **55** (corresponding to the claimed analog television signal rejection filter), sync extractor **54**, and a multiplexer **58** (which corresponds to the claimed switching circuitry). Therefore, Park discloses all claimed subject matter.

Claim **16** is a method claim of claim 1 and, thus, claim 16 is rejection for the same reasons as in claim 1.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 5, 7 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park.

Considering claim 5, Park discloses sync detection. Park does not specifically horizontal and vertical synchronization pulses. However, the examiner takes official notice in that in display systems a synchronization signal comprises both vertical and horizontal pulses or signals, and therefore, it would have been obvious to the skilled in the art to readily recognize that the sync detector in the system of Park detects both vertical and horizontal pulses.

As to claim 7, Park discloses NTSC signal rejection filter. It is well known in the art the NTSC rejection filter detects and filter analog television signal. PAL is another analog television format used in Europe. The NTSC rejection filter is also known as analog signal rejection filter because it is used to filter out analog television signal. Thus, it would have been obvious to the skilled in the art to modify the system of Park by providing the interchangeable NTSC/analog filter which can be used for both NTSC and PAL system along with a conversion circuitry.

Considering claim 22, Park discloses an IF filter and sync detector which determines the presence of sync pulses in the video signal and a sync extractor which then extracts the sync from the IF video signal.

Allowable Subject Matter

7. Claims **2-4, 8-9,11-15, 17-21** are allowed.
8. Claims **23-24** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

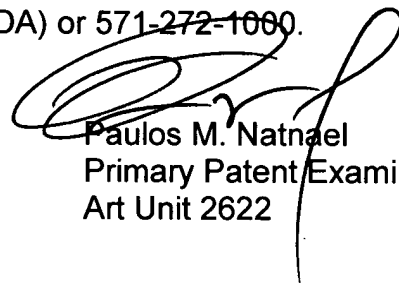
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paulos M. Natnael whose telephone number is (571) 272-7354. The examiner can normally be reached on 8AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571)272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2622

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Paulos M. Natnael
Primary Patent Examiner
Art Unit 2622

June 11, 2007